

Safety Data Sheet

according to WHMIS 2023 and HCS 2024

1 Identification

· **Product identifier**

· **Trade name: 434**

· **Other Means of Identification:** Acetone

· **CAS Number:**

67-64-1

· **Related Part Number:** 434-Liquid, 434-1L, 434-4L, 434-20L

· **Application of the substance / the mixture** Solvents

· **Uses advised against** Not available

· **Details of the supplier of the safety data sheet**

Manufacturer/Supplier:

MG Chemicals (Head Office)

1210 Corporate Drive

Burlington, Ontario L7L 5R6

CANADA

+(1) 800-340-0772

+(1) 905-331-1396

info@mgchemicals.com

Distributor:

Masline

511 Clinton Ave S

Rochester, New York 14620

United States

+(1) 586-546-5373

· **Information department:** sds@mgchemicals.com

· **Emergency telephone number:**

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)

USA or CANADA-Call 3E at +1-866-519-4752 or +1-760-476-3962 (Service access code: 335388)

For emergencies involving the transport of dangerous goods; 24/7 service

CANADA-Call CANUTEC collect at +1-613-996-6666 or *666 on cellular phones

* 2 Hazard identification

· **Classification of the substance or mixture**

Flammable liquids – Category 2

H225 Highly flammable liquid and vapour.

Eye damage/irritation – Category 2A

H319 Causes serious eye irritation.

Specific target organ toxicity (single exposure) – Category 3

H336 May cause drowsiness or dizziness.

· **Label elements**

· **GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

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· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Danger

· **Hazard-determining components of labeling:**

acetone

· **Hazard statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof equipment.

P243 Take action to prevent static discharges.

P261 Avoid breathing mist, vapors or spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves, protective clothing, and eye protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice.

P370+P378 In case of fire: Use CO₂, powder or water spray to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local, regional, and national regulations.

· **Other hazards** Repeated exposure may cause skin dryness or cracking.

3 Composition/Information on ingredients

· **Chemical characterization: Substances**

· **CAS No. Description**

67-64-1 acetone

· **Identification number(s)**

· **EC number:** 200-662-2

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· Index number: 606-001-00-8

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4 First-aid measures

· Description of first aid measures

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:**

Remove person to fresh air and keep comfortable for breathing.

If feeling unwell: Call a POISON CENTRE or doctor.

· **After skin contact:**

Take off immediately all contaminated clothing.

Wash with plenty of soap and water.

· **After eye contact:**

Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice or attention.

· **After swallowing:**

Rinse mouth.

Do NOT induce vomiting.

If symptoms persist consult doctor.

· **Information for doctor:** Treat symptomatically

· Most important symptoms and effects, both acute and delayed

See section 11 for additional information.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture

Prevent fire-fighting wash from entering waterway or sewer system.

· **Hazardous combustion products:** Carbon Oxides (CO_x)

· Advice for firefighters

· **Protective equipment:** No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

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Remove or keep away all sources of extreme heat or open flames.
Avoid breathing mist, spray, or vapors.

· **Environmental precautions:**

Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Collect liquid in a sealable, chemical-resistant container.
Wash residue with a paper towel and place dirty towels in container.
Use soap and water to remove the last traces of residue.

· **Reference to other sections**

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.
Wear protective gloves and eye protection.
Wash hands and exposed skin thoroughly after handling.
Take off contaminated clothing and wash it before reuse.
Avoid breathing mist, spray, or vapors.
Use only outdoors or in a well-ventilated area.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.
Ground and bond container and receiving equipment.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

- **Requirements to be met by storerooms and receptacles:** Store in a well-ventilated place. Keep cool.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
 - Keep receptacle tightly sealed.
 - Store in cool, dry conditions in well sealed receptacles.
 - Store locked up.

· **Specific end use(s)** See section 1.2

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8 Exposure controls/ Personal protection

· **Control parameters**

· Components with limit values that require monitoring at the workplace:	
67-64-1 acetone	
EL (Canada)	STEL: 500 ppm TWA: 250 ppm
EV (Canada)	STEL: 750 ppm TWA: 500 ppm
PEL (USA)	TWA: 2400 mg/m ³ , 1000 ppm
REL (USA)	TWA: 590 mg/m ³ , 250 ppm
TLV (USA)	STEL: 1187 mg/m ³ , 500 ppm TWA: 594 mg/m ³ , 250 ppm A4, BEI
· Ingredients with biological limit values:	
67-64-1 acetone	
BEI (USA)	25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)

· **Additional information:**

The lists that were valid during the creation were used as basis.
 Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.

· **Exposure controls**

· **Appropriate engineering controls** Keep airborne concentrations below exposure limits.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
 Advice should be sought from respiratory protection specialists.
 If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

· **Protection of hands:**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves: EN374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses or tightly sealed goggles: EN 166

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

· Physical state	Liquid
· Form:	Low viscosity
· Color:	Colorless
· Odor:	Like ketone
· Odor threshold:	Not determined.
· Melting point/Melting range:	-94.7 °C (-138.5 °F)
· Boiling point/Boiling range:	55.8–56.6 °C (132.4–133.9 °F)
· Flammability:	Highly flammable.
· Explosion limits:	
· Lower:	2.6 Vol %
· Upper:	13 Vol %
· Flash point:	-17 °C (1.4 °F)
· Auto igniting:	465 °C (869 °F)
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic:	Not determined.
· Dynamic at 20 °C (68 °F):	32 mPas
· Solubility in / Miscibility with	
· Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure at 20 °C (68 °F):	233 hPa (174.8 mm Hg)
· Relative density at 25 °C (77 °F):	0.79
· Vapor density (air=1):	Not determined.
· Particle characteristics	Not applicable

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<ul style="list-style-type: none"> · Other information · Important information on protection of health and environment, and on safety. 	
<ul style="list-style-type: none"> · Ignition temperature: · Danger of explosion: 	<p>Not determined.</p> <p>Product is not explosive. However, formation of explosive air/vapor mixtures are possible.</p>
<ul style="list-style-type: none"> · Organic solvents: · VOC content: 	<p>100.00 %</p> <p>100.000 %</p>
<ul style="list-style-type: none"> · Solids content: · Evaporation rate 	<p>0.0 g/l / 0.00 lb/gal</p> <p>0.0 %</p> <p>Not determined.</p>

10 Stability and reactivity

- **Reactivity** Acetone reacts exothermically with phosphorous oxychloride, which can lead to an explosion.
- **Chemical stability** Chemically stable at normal temperatures and pressures.
 - **Thermal decomposition / conditions to be avoided:**
 No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Avoid open flames, excessive heat, sparks, ignition sources, and incompatible substances.
- **Incompatible materials:**
 Strong bases
 Strong oxidizing agents
 Phosphorous oxychloride
- **Hazardous decomposition products:**
 No dangerous decomposition products known.
 Hazardous combustion products: see section 5.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

<ul style="list-style-type: none"> · LD/LC50 values that are relevant for classification: 		
67-64-1 acetone		
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	>7,426 mg/kg (rabbit)
Inhalative	LC50/ 3 h	132 mg/L (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.

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- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **Specific target organ toxicity - single exposure** May cause drowsiness or dizziness.
- **Specific target organ toxicity - repeated exposure**
Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Summary of effects and symptoms by route of exposure**
 - **Eyes:** redness, serious irritation
 - **Skin:** dry skin
 - **Inhalation:**
dizziness or drowsiness
cough
sore throat
nausea
headache
 - **Swallowed:**
nausea
weakness
headache
see inhalation symptoms
- **Delayed and immediate effects as well as chronic effects from short and long-term exposure**
No further relevant information available.
- **Additional toxicological information:**
 - **Carcinogenic categories**
 - **IARC (International Agency for Research on Cancer)** Substance is not listed.
 - **NTP (National Toxicology Program)** Substance is not listed.

12 Ecological information

· **Toxicity**

· Aquatic toxicity:	
67-64-1 acetone	
EC50/ 48 h	13,500 mg/L (daphnia)
LC50 96h	5,540 mg/L (trout)

- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

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- **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation:** This material and its container must be disposed of as hazardous waste.
- **Uncleaned packagings:**
 - **Recommendation:**
Containers may still present a chemical hazard/ danger when empty.
Dispose of contents in accordance with all local, regional, national, and international regulations.
Where possible retain label warnings and SDS and observe all notices pertaining to the product.
 - **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· UN-Number	
· DOT/TDG, IMDG, IATA	UN1090
· UN proper shipping name	
· DOT/TDG, IATA	Acetone
· IMDG	ACETONE
· Transport hazard class(es)	
· DOT/TDG (Transport dangerous goods):	
	
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
	
· Class	3 Flammable liquids
· Label	3

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· Packing group · DOT/TDG, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
 Limited Quantity 4352-1L	
· DOT/TDG	
· Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· Hazardous substance:	5000 lbs, 2270 kg

· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Special precautions for user	Not applicable.
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E,S-D
· Stowage Category	E
· UN "Model Regulation":	UN 1090 ACETONE, 3, II

*** 15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **OSHA Hazard Communication Standard (29 CFR Part 1900)**
The safety data sheet and label comply with HCS 2024.
 - **Hazardous Products Act (R.S.C., 1985, c. H-3)**
The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2023.
 - **Sara**
 - **Section 355 (extremely hazardous substances):** Substance is not listed.
 - **Section 313 (Specific toxic chemical listings):** Substance is not listed.
 - **TSCA (Toxic Substances Control Act):** ACTIVE

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- **Hazardous Air Pollutants** Substance is not listed.
- **Proposition 65**
 - **Chemicals known to cause cancer:** Substance is not listed.
 - **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
 - **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.
 - **Chemicals known to cause developmental toxicity:** Substance is not listed.
- **Carcinogenic categories**
 - **TLV (Threshold Limit Value) A4**
 - **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.
- **Canadian substance listings:**
 - **Canadian Domestic Substances List (DSL)** Substance is listed.
 - **Canadian Non-Domestic Substances List (NDSL)** Substance is not listed.
 - **Canadian Ingredient Disclosure list (limit 0.1%)** Substance is not listed.
 - **Canadian Ingredient Disclosure list (limit 1%)** Substance is listed.
- **HMIS-ratings (scale 0 - 4)**
 - Health = * 2
 - Fire = 3
 - Reactivity = 0
- **Europe**
 - **RoHS (Restriction of Hazardous Substances Directive)**

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.
 - **WEEE (Waste Electrical and Electronic Equipment Directive)**

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.
 - **Per- and polyfluoroalkyl substances (PFAS)** Substance is not listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Regulatory department
- **Contact:** sds@mgchemicals.com
- **Date of previous version** 06/19/2023
- **Version number of previous version:** 6.00
- **Date of preparation** 11/07/2025
- **Abbreviations and acronyms:**
 - IMDG: International Maritime Code for Dangerous Goods
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - VOC: Volatile Organic Compounds (USA, EU)
 - LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety

· * **Data compared to the previous version altered.**

— CA —